

ABSTRACT OF THE DISCLOSURE

What is described here is a device for non-contact transmission of electrical signals and/or energy between at least two parts mobile relative to each other, wherein on the parts between which signals and/or energy are to be transmitted a plurality of defined electromagnetic coupler elements is provided whose near field causes the non-contact transmission.

The inventive device excels itself by the provisions that the coupler elements on at least one part

- form a conductor structure configured as cascade circuit terminated in a manner free from reflection, and
- that each coupler element, independently of the other coupler elements on this part, is a resonator system having a resonance frequency higher than the highest frequency of the wide-band signals to be transmitted.

An alternative embodiment is characterised by the provision that each of the coupler elements provided on at least one part comprises at least one resonator which consists of a single element able to resonate per se and independently of the other coupler elements and has a resonance frequency approximately equal to the frequency of the signals to be transmitted, and

- that the individual resonators are connected to each other via line terminated in a manner free from reflection.